

CLAIMS:

1. A multi-tier application architecture having a middletier comprising:
a framework to mediate between an application and a middletier,
wherein the framework allows a middletier to execute an object fetched by an application from a cache;
wherein, when an object becomes stale, the framework repeatedly refreshes the object within a limited number of retries;
wherein, when an object refresh succeeds, the framework returns the object to the cache and again allows the middletier to execute the object; and
wherein, when an object refresh does not succeed within a limited number of retries, the framework quits an application in fail-safe way.
2. The multi-tier application architecture according to claim 1,
wherein a user can specify the limited number of retries.
3. The multi-tier application architecture according to claim 2,
wherein a user can specify a time interval between the retries.
4. The multi-tier application architecture according to claim 1,
wherein the framework has its operations visualized to a user.
5. The multi-tier application architecture according to claim 1, further including:
a watchdog to resume normal operations when the middletier crushes.
6. The multi-tier application architecture according to claim 5,
wherein the watchdog recovers a middletier based on a result of periodical polling.

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7. The multi-tier application architecture according to claim 5,
wherein the watchdog recovers a middletier based on notification from the
framework.